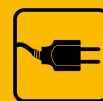


# Klüberlectric KR 44-402

Special grease for the lubrication of electrical switches, contacts and sensors



## Your benefits at a glance

- Wide service temperature range
- Good corrosion protection of copper and silver contacts
- Ageing and oxidation stability
- Good compatibility with plastics
- Damping effect
- Contains a UV indicator

## Your requirements - our solution

Klüberlectric KR 44-402 is a special grease for the lubrication of electrical switches, contacts and sensors. It consists of a synthetic hydrocarbon oil and lithium complex soap incorporating a UV indicator for quality inspection when locally applied in small quantities. A special additive combination makes Klüberlectric KR 44-402 particularly suitable for the lubrication of electrical contacts. It is intended especially for the protection and lubrication of copper, tin and silver surfaces against corrosion. Further positive effects are: reduction of plug-in and switching forces, reduction of fretting corrosion, extended connecting and switching cycles, constantly low contact resistance and smoother switching transitions.

## Application

For electrical components in the automotive, industrial engineering and installations sector. Due to its specific base oil viscosity, Klüberlectric KR 44-402 works particularly well under medium to high contact forces and at low temperatures. It is compatible with most plastic materials and hence can be used for the lubrication of

plastic/plastic material combinations. Klüberlectric KR 44-402 minimises contact resistance values under lifetime operating requirements subject to varying electrical and mechanical loads.

## Application notes

To utilise this special grease's full performance capacity, component parts to be greased should be cleaned to remove all foreign substances such as corrosion protection oils, waxes, etc. Electrical contacts should be bright and clean. The lubricant can be applied by spatula, tampon printing or via automatic dosing equipment. Due to the many different material compositions, in terms of elastomers and plastics, compatibility with the selected materials should always be tested prior to series application.

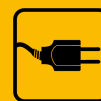
## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

| Pack sizes      | Klüberlectric KR 44-402 |
|-----------------|-------------------------|
| Can 1 kg        | +                       |
| Bucket 5 kg     | +                       |
| Bucket 25 kg    | +                       |
| Characteristics | Klüberlectric KR 44-402 |
| Article number  | 091021                  |

# Klüberlectric KR 44-402

Special grease for the lubrication of electrical switches, contacts and sensors



| Characteristics  | Klüberlectric KR 44-402        |
|--|--------------------------------|
| Colour space   | beige                          |
| Texture  | homogeneous , long fibrous     |
| Service temperature, lower limit   | -40 °C                         |
| Service temperature, upper limit   | 150 °C                         |
| Density, Klüber method: PN 024, 20°C   | approx. 0.85 g/cm <sup>3</sup> |
| Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit  | 280 0.1 mm                     |
| Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit  | 310 0.1 mm                     |
| Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C                           | approx. 42 mm <sup>2</sup> /s  |
| Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C                            | approx. 415 mm <sup>2</sup> /s |
| Dropping point, DIN ISO 2176 / IP 396  | > 220 °C                       |
| Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx. | 36 months                      |

## Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 90 years.

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